## I CLAIM:

1. In a fluid/liquid storage tank with a sidewall and a floating roof floating atop the fluid/liquid, an improved grounding system comprising:

a reel connected to the sidewall; and said reel having a low impedance conductor connected to the floating roof.

- 2. The improvement of claim 1, wherein the reel further comprises a take up spool which keeps any slack out of the conductor and maintains a shortest fractional length.
- 3. The improvement of claim 2, wherein the take up spool further comprises a spring.
  - 4. The improvement of claim 1, wherein the wire further comprises a bare braided copper cable.
- 5. The improvement of claim 1, wherein the reel further comprises a base having bolts secured to the tank wall.
- 6. The improvement of claim 4, wherein the bare braided copper cable further comprises a lug having a bolt secured to the floating roof.

20

- 7. The improvement of claim 6, wherein the impedance of the lug and bolt, plus the braided copper cable plus the reel is about one ohm or less.
- 8. A grounding system for a storage tank having a floating roof, said grounding system comprising:

a wire having an end connected to the floating roof; said wire having a second end wound around a spool in a reel;

said reel having a grounded connection to a wall segment of the tank; and said wire having a low impedance.

- 9. The grounding system of claim 8, wherein the wire further comprises a flat braided copper conductor.
  - 10. The grounding system of claim 9, wherein the spool further comprises a take up mechanism to minimize slack in the conductor.
  - 11. The grounding system of claim 10, wherein the total impedance of the system is about five ohms or less.
- 12. A grounding system for a tank with a floating roof,25 said grounding system comprising:

means for taking slack out of a cable connected from a floating roof to an upper segment of a tank wall, and thereby maintaining a minimum length;

15

and

said cable having a low impedance.

- 13. The grounding system of claim 11, wherein the means of taking slack out further comprises a reel having a take up spool.
- 14. The grounding system of claim 13, wherein the take up spool further comprises a spring functioning to constantly pull up on the cable.
  - 15. The grounding system of claim 13, wherein the cable further comprises a braided conductor.
  - 16. The grounding system of claim 15, wherein the system has a total impedance of about five ohms or less.
- 17. The grounding system of claim 15, wherein the braided conductor has a bolt connection to the floating 20 roof, and the reel has a base with a bolt connection to the tank wall.